BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

Final bill

Sl No	Description of item's	Unit	Previous Measurements		Present Measurements			Total Up to Date	
			Qty	Amount	Qty	Rate	Amount	Qty	Amount
Item No-01	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)	sqm			636.53	65.72	41832.42	636.53	41832.42
Item No-02	Refixing stone slabs of drains and pointing in CM (1:3)(page no 25,I no 5.33)	sqm			636.53	80.56	51278.45	636.53	51278.45
Item No-03	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick	sqm			397.04	665.68	264298.26	397.04	264298.26
Item No-04	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications	cum			156.96	86.92	13642.96	156.96	13642.96
Item No-05	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.25/I.5.27)	sqm			216.00	993.22	214535.52	216.00	214535.52
Item No-06	KSRB 5-15: Providing and constructing non load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.	sqm			216.00	754.00	162864.00	216.00	162864.00
Item No-07	KSRB 4-1.6: Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	cum			29.65	5767.46	170990.77	29.65	170990.77

Item No-08	Providing Pre cast slab of 100mm thick including cost of all materials,labour,curing,transportation,loading,unloading etc,complete as per the direction of engineer in charge of work. (Approved Data Rate).	sqm			485.91	2100.00	1020411.00	485.91	1020411.00
Item No-09	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m complete as per specifications.MORTH Specification No.301	cum			487.32	48.76	23761.49	487.32	23761.49
Item No-10	KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (P.No.144, I.No.19.60)	cum			453.90	320.12	145302.47	453.90	145302.47
Item No-11	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers etc as per specifications.	cum			340.43	1665.00	566815.95	340.43	566815.95
Item No-12	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting withvibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406	cum			471.90	1750.00	825825.00	471.90	825825.00
Item No-13	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502	sqm			2388.52	27.00	64490.04	2388.52	64490.04

Item No-14	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5	sqm			2388.52	11.00	26273.72	2388.52	26273.72
Item No-15	KSRRB M500- 17. Providing laying dense graded bitumrn macadam using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm),crushed aggregates of sprcified grading premixed with 4.5% VG 30 grade bitumen binder and transporting the hot mix to work site laying to the required level and grade, rolling with wheeled,vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials labour HOM of machineries complete as per specifications.	cum			119.43	6435.26	768537.36	119.43	768537.36
Item No-16	KSRRB M500- 19. Providing laying Bituminous concrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm),crushed aggregates of sprcified grading premixed with 6% VG 30 grade bitumen binder and transporting the hot mix to work site laying to the required level and grade, rolling with wheeled,vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials labour HOM of machineries complete as per specifications.	cum			71.66	7270.54	520974.91	71.66	520974.91
Item No-17	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.	cum			644.28	90.40	58242.48	644.28	58242.48
Item No-18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	sqm			80.60	542.72	43743.23	80.60	43743.23
							Total Bill Amount Rs.		**4983820.04**

Contractors Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka sattellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and M[illegible]t in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 9-1-18

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-01	Removing B.S slab of drain and stacking (P.No 25 I.No 5.32)							
	Thirumalanagara 3rd cross	sqm	1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	30.00	1.35		81.00	
			1x2	3.80	1.35		10.26	
	2nd Main Road		1x2	30.00	1.35		81.00	
			1x2	8.50	1.35		22.95	
	Pulikeshinagara:-1st Cross		1x2	28.50	1.35		76.95	
							1001.16	
	Deductions For Damaged Portions:-							
	L/Side		1x1	5.00	1.35		6.75	
			1x1	8.00	1.35		10.80	
			1x1	6.00	1.35		8.10	
			1x1	7.00	1.35		9.45	
			1x1	5.00	1.35		6.75	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	5.80	1.35		7.83	
			1x1	6.80	1.35		9.18	
			1x1	5.50	1.35		7.43	
	Road		1x1	9.00	1.35		12.15	
			1x1	8.50	1.35		11.48	
			1x1	7.50	1.35		10.13	
			1x1	10.00	1.35		13.50	
			1x1	5.00	1.35		6.75	
			1x1	10.00	1.35		13.50	
			1x1	9.00	1.35		12.15	
			1x1	8.00	1.35		10.80	
			1x1	7.70	1.35		10.40	
			1x1	6.00	1.35		8.10	
	R/side		1x1	6.50	1.35		8.78	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	9.90	1.35		13.37	
			1x1	8.00	1.35		10.80	
			1x1	8.00	1.35		10.80	
			1x1	9.00	1.35		12.15	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	9.00	1.35		12.15	
			1x1	7.00	1.35		9.45	
			1x1	5.00	1.35		6.75	
			1x1	8.50	1.35		11.48	
			1x1	7.50	1.35		10.13	
			1x1	6.00	1.35		8.10	
			1x1	5.00	1.35		6.75	

			1x1	5.90	1.35		7.97	
							364.64	
					Total Qty		636.53	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Measurements Taken On:-

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-02	Refixing stone slabs of drains and pointing in CM (1:3)(page no 25,I no 5.33)							
		sqm		Qty vide item no-01			636.53	

Contractors Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 13-7-18

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-03	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete do 7.5 cms thick							
	Damaged Portions:-	sqm						
	L/Side		1x1	5.00	1.35		6.75	
			1x1	8.00	1.35		10.80	
			1x1	6.00	1.35		8.10	
			1x1	7.00	1.35		9.45	
			1x1	5.00	1.35		6.75	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	5.80	1.35		7.83	
			1x1	6.80	1.35		9.18	
			1x1	5.50	1.35		7.43	
	Road		1x1	8.50	1.35		11.48	
			1x1	7.50	1.35		10.13	
			1x1	10.00	1.35		13.50	
			1x1	5.00	1.35		6.75	
			1x1	10.00	1.35		13.50	
			1x1	9.00	1.35		12.15	
			1x1	8.00	1.35		10.80	
			1x1	7.70	1.35		10.40	
			1x1	6.00	1.35		8.10	
	R/side		1x1	6.50	1.35		8.78	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	9.90	1.35		13.37	
			1x1	8.00	1.35		10.80	
			1x1	8.00	1.35		10.80	
			1x1	9.00	1.35		12.15	
			1x1	7.00	1.35		9.45	
			1x1	8.00	1.35		10.80	
			1x1	9.00	1.35		12.15	
			1x1	7.00	1.35		9.45	
			1x1	5.00	1.35		6.75	
			1x1	8.50	1.35		11.48	
			1x1	7.50	1.35		10.13	
			1x1	6.00	1.35		8.10	
			1x1	5.00	1.35		6.75	
			1x1	5.90	1.35		7.97	
	Pulikeshinagara		1x2	16.50	1.35		44.55	
					Total Qty		**397.04**	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 13-7-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-04	KSRRB 300-1,Earth work excavation by manual means in ordinary soil involving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications							
	Desilting of drains	cum						
	Thirumalanagara 3rd cross		1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	30.00	0.45	0.30	8.10	
			1x2	3.00	0.45	0.30	0.81	
	2nd Main Road		1x2	30.00	0.45	0.30	8.10	
	Pulikeshinagara:-1st Cross		1x2	28.50	0.45	0.30	7.70	
	2nd Cross		1x2	27.00	0.45	0.30	7.29	
	3rd Cross		1x2	20.20	0.60	0.35	8.48	
	Extra over burden earth							
	Thirumalanagara 3rd cross		1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	30.00	0.40	0.15	3.60	
			1x2	3.00	0.40	0.15	0.36	
	2nd Main Road		1x2	30.00	0.25	0.15	2.25	
			1x2	8.20	0.25	0.15	0.62	
	Pulikeshinagara:-1st Cross		1x2	28.50	0.20	0.10	1.14	
	2nd Cross		1x2	27.00	0.20	0.10	1.08	
	3rd Cross		1x2	22.90	0.20	0.10	0.92	
							158.04	
	(-)Deduct Road		1x1	9.00	0.40	0.30	1.08	
					Total Qty		156.96	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 13-7-18

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-05	KSRB 5-14: Providing and constructing precast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.25/I.5.27)							
	Thirumalanagara 3rd cross	sqm	1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	3.00		0.40	2.40	
							242.40	
	(-)Deduct		1x12	10.00		0.20	24.00	
					Total Qty		**218.40**	
				Quantity Limited To			**216.00**	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- ೮-೩-೧೪

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-06	KSRB 5-15: Providing and constructing non load bearing wall with cement concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.							
	Thirumalanagara 3rd cross	sqm	1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	30.00		0.40	24.00	
			1x2	3.00		0.40	2.40	
							242.40	
	(-)Deduct		1x12	10.00		0.20	24.00	
			1x2	6.00		0.20	2.40	
							26.40	
					Total Qty		**216.00**	

Contractor,s Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 13-7-16

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-07	KSRB 4-1.6: Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2							
	Base concrete	cum						
	In side:-Thirumalanagara 3rd cross		1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	30.00	0.25	0.10	1.50	
			1x2	3.00	0.25	0.10	0.15	
	Out side:-Thirumalanagara 3rd cross		1x2	30.00	0.15	0.10	0.90	
			1x2	30.00	0.15	0.10	0.90	
			1x2	30.00	0.15	0.10	0.90	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
			1x2	30.00	0.10	0.10	0.60	
	Coping concrete							
	Out side:-Thirumalanagara 3rd cross		1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	3.00	0.15	0.05	0.05	
	In side:-Thirumalanagara 3rd cross		1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.15	0.05	0.45	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	30.00	0.10	0.05	0.30	
			1x2	3.00	0.10	0.05	0.03	
							30.08	
	Road portion		1x1	9.00	0.25	0.10	0.23	
			1x1	9.00	0.10	0.10	0.09	
		8	1x1	9.00	0.15	0.05	0.07	
			1x1	9.00	0.10	0.05	0.05	

							0.43	
					Total Qty		29.65	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Measurements Taken On:-

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-08	Providing Pre cast slab of 100mm thick including cost of all materials,labour,curing,transportation,loading,unloading etc,complete as per the direction of engineer in charge of work. (Approved Data Rate).							
	Thirumalanagara 3rd cross	sqm	2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	30.00	0.90		54.00	
			2	3.00	0.90		5.40	
							545.40	
	Deductions for house portions		1	8.50	0.90		7.65	
			1	6.00	0.90		5.40	
			1	5.50	0.90		4.95	
	Road		1	9.00	0.90		8.10	
			1	7.00	0.90		6.30	
			1	6.00	0.90		5.40	
			1	7.50	0.90		6.75	
			1	8.00	0.90		7.20	
			1	8.60	0.90		7.74	
							59.49	
							485.91	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 13-7-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-09	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within all lifts and lead upto 1000m complete as per specifications.MORTH Specification No.301							
	Thirumalanagara 3rd cross	cum	1	30.00	(6.70+6.50) / 2	0.20	39.60	
			1	30.00	(6.50+5.90) / 2	0.20	37.20	
			1	30.00	(5.90+5.50) / 2	0.20	34.20	
			1	30.00	(5.50+6.30) / 2	0.20	35.40	
			1	30.00	(6.30+5.80) / 2	0.20	36.30	
			1	30.00	(5.80+5.50) / 2	0.20	33.90	
			1	30.00	(5.50+5.70) / 2	0.20	33.60	
			1	30.00	(5.70+5.80) / 2	0.20	34.50	
			1	30.00	(5.80+6.10) / 2	0.20	35.70	
			1	30.00	(6.10+6.00) / 2	0.20	36.30	
			1	3.80	(6.00+5.90) / 2	0.20	4.52	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.25	48.75	
			1	8.50	(6.40+6.50) / 2	0.25	13.71	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.20	24.23	
	2nd Cross		1	27.00	(4.20+4.00) / 2	0.20	22.14	
	3rd Cross		1	22.90	(4.50+4.30) / 2	0.20	20.15	
							490.20	
	(-)Deduct chamber		10	1.20	1.20	0.20	2.88	
						Total qty	**487.32**	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:- Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:- Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 16-7-18

S.NO	Description of Item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-10	KSRRB M300-53. Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305. (P.No.144, I.No.19.60)							
	Thirumalanagara 3rd cross	cum	1	30.00	(6.70+6.50) / 2	0.25	49.50	
			1	30.00	(6.50+5.90) / 2	0.20	37.20	
			1	30.00	(5.90+5.50) / 2	0.20	34.20	
			1	30.00	(5.50+6.30) / 2	0.20	35.40	
			1	30.00	(6.30+5.80) / 2	0.20	36.30	
			1	30.00	(5.80+5.50) / 2	0.25	42.38	
			1	30.00	(5.50+5.70) / 2	0.20	33.60	
			1	30.00	(5.70+5.80) / 2	0.20	34.50	
			1	30.00	(5.80+6.10) / 2	0.20	35.70	
			1	30.00	(6.10+6.00) / 2	0.20	36.30	
			1	3.80	(6.00+5.90) / 2	0.25	5.65	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.25	48.75	
			1	8.50	(6.40+6.50) / 2	0.25	13.71	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.15	15.11	
							458.30	
	(-)Deduct chamber		10	1.20	1.20	0.20	2.88	
						Total qty	**455.42**	
				Quantity Limited To			**453.90**	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 18-7-16

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-11	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers etc as per specifications.							
	Thirumalanagara 3rd cross	cum	1	30.00	(6.70+6.50) / 2	0.15	29.70	
			1	30.00	(6.50+5.90) / 2	0.15	27.90	
			1	30.00	(5.90+5.50) / 2	0.15	25.65	
			1	30.00	(5.50+6.30) / 2	0.12	21.24	
			1	30.00	(6.30+5.80) / 2	0.15	27.23	
			1	30.00	(5.80+5.50) / 2	0.15	25.43	
			1	30.00	(5.50+5.70) / 2	0.15	25.20	
			1	30.00	(5.70+5.80) / 2	0.15	25.88	
			1	30.00	(5.80+6.10) / 2	0.15	26.78	
			1	30.00	(6.10+6.00) / 2	0.10	18.15	
			1	3.80	(6.00+5.90) / 2	0.10	2.26	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.15	29.25	
			1	8.50	(6.40+6.50) / 2	0.15	8.22	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.15	18.17	
	2nd Cross		1	27.00	(4.20+4.00) / 2	0.15	16.61	
	3rd Cross		1	22.90	(4.50+4.30) / 2	0.15	15.11	
							342.76	
	(-)Deduct chamber		10	1.20	1.20	0.15	2.16	
						Total qty	**340.60**	
					Quantity Limited To		**340.43**	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 25-7-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-12	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting withvibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406							
	Thirumalanagara 3rd cross	cum	1	30.00	(6.70+6.50) / 2	0.20	39.60	
			1	30.00	(6.50+5.90) / 2	0.20	37.20	
			1	30.00	(5.90+5.50) / 2	0.20	34.20	
			1	30.00	(5.50+6.30) / 2	0.20	35.40	
			1	30.00	(6.30+5.80) / 2	0.20	36.30	
			1	30.00	(5.80+5.50) / 2	0.20	33.90	
			1	30.00	(5.50+5.70) / 2	0.20	33.60	
			1	30.00	(5.70+5.80) / 2	0.20	34.50	
			1	30.00	(5.80+6.10) / 2	0.20	35.70	
			1	30.00	(6.10+6.00) / 2	0.20	36.30	
			1	3.80	(6.00+5.90) / 2	0.10	2.26	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.20	39.00	
			1	8.50	(6.40+6.50) / 2	0.20	10.97	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.20	24.23	
	2nd Cross		1	27.00	(4.20+4.00) / 2	0.20	22.14	
	3rd Cross		1	22.90	(4.50+4.30) / 2	0.20	20.15	
							475.44	
	(-)Deduct chamber		10	1.20	1.20	0.20	2.88	
						Total qty	**472.56**	
					Quantity Limited To		**471.90**	

Contractor / Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 23-8-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-13	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502							
	Thirumalanagara 3rd cross	Sqm	1	30.00	(6.70+6.50)		198.00	
					2			
			1	30.00	(6.50+5.90)		186.00	
					2			
			1	30.00	(5.90+5.50)		171.00	
					2			
			1	30.00	(5.50+6.30)		177.00	
					2			
			1	30.00	(6.30+5.80)		181.50	
					2			
			1	30.00	(5.80+5.50)		169.50	
					2			
			1	30.00	(5.50+5.70)		168.00	
					2			
			1	30.00	(5.70+5.80)		172.50	
					2			
			1	30.00	(5.80+6.10)		178.50	
					2			
			1	30.00	(6.10+6.00)		181.50	
					2			
			1	3.80	(6.00+5.90)		22.61	
					2			
	2nd Main Road		1	30.00	(6.60+6.40)		195.00	
					2			
			1	8.50	(6.40+6.50)		54.83	
					2			
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10)		121.13	
					2			
	2nd Cross		1	27.00	(4.20+4.00)		110.70	
					2			
	3rd Cross		1	22.90	(4.50+4.30)		100.76	
					2			
						Total qty	2388.52	

Contractor / Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 23-8-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-14	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5							
	Thirumalanagara 3rd cross	Sqm	1	30.00	(6.70+6.50)		198.00	
					2			
			1	30.00	(6.50+5.90)		186.00	
					2			
			1	30.00	(5.90+5.50)		171.00	
					2			
			1	30.00	(5.50+6.30)		177.00	
					2			
			1	30.00	(6.30+5.80)		181.50	
					2			
			1	30.00	(5.80+5.50)		169.50	
					2			
			1	30.00	(5.50+5.70)		168.00	
					2			
			1	30.00	(5.70+5.80)		172.50	
					2			
			1	30.00	(5.80+6.10)		178.50	
					2			
			1	30.00	(6.10+6.00)		181.50	
					2			
			1	3.80	(6.00+5.90)		22.61	
					2			
	2nd Main Road		1	30.00	(6.60+6.40)		195.00	
					2			
			1	8.50	(6.40+6.50)		54.83	
					2			
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10)		121.13	
					2			
	2nd Cross		1	27.00	(4.20+4.00)		110.70	
					2			
	3rd Cross		1	22.90	(4.50+4.30)		100.76	
					2			
						Total qty	2388.52	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Pre-Measurements Taken On:- 23-8-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-15	KSRRB M500- 17. Providing laying dense graded bitumrn macadam using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm),crushed aggregates of sprcified grading premixed with 4.5% VG 30 grade bitumen binder and transporting the hot mix to work site laying to the required level and grade, rolling with wheeled,vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials labour HOM of machineries complete as per specifications.							
	Thirumalanagara 3rd cross	cum	1	30.00	(6.70+6.50) / 2	0.05	9.90	
			1	30.00	(6.50+5.90) / 2	0.05	9.30	
			1	30.00	(5.90+5.50) / 2	0.05	8.55	
			1	30.00	(5.50+6.30) / 2	0.05	8.85	
			1	30.00	(6.30+5.80) / 2	0.05	9.08	
			1	30.00	(5.80+5.50) / 2	0.05	8.48	
			1	30.00	(5.50+5.70) / 2	0.05	8.40	
			1	30.00	(5.70+5.80) / 2	0.05	8.63	
			1	30.00	(5.80+6.10) / 2	0.05	8.93	
			1	30.00	(6.10+6.00) / 2	0.05	9.08	
			1	3.80	(6.00+5.90) / 2	0.05	1.13	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.05	9.75	
			1	8.50	(6.40+6.50) / 2	0.05	2.74	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.05	6.06	
	2nd Cross		1	27.00	(4.20+4.00) / 2	0.05	5.54	
	3rd Cross		1	22.90	(4.50+4.30) / 2	0.05	5.04	
					Total qty		119.43	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Measurements Taken On:- 23-8-18

S.NO	Description of item's	Unit	No	Measurements L	B	D	Qty	Remarks
Item No-16	KSRRB M500- 19. Providing laying Bituminous concrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm),crushed aggregates of sprcified grading premixed with 6% VG 30 grade bitumen binder and transporting the hot mix to work site laying to the required level and grade, rolling with wheeled,vibratory and tandeem rollers to achieve the desired density including all leads and lift cost of all materials labour HOM of machineries complete as per specifications.							
	Thirumalanagara 3rd cross	Cum	1	30.00	(6.70+6.50) / 2	0.03	5.94	
			1	30.00	(6.50+5.90) / 2	0.03	5.58	
			1	30.00	(5.90+5.50) / 2	0.03	5.13	
			1	30.00	(5.50+6.30) / 2	0.03	5.31	
			1	30.00	(6.30+5.80) / 2	0.03	5.45	
			1	30.00	(5.80+5.50) / 2	0.03	5.09	
			1	30.00	(5.50+5.70) / 2	0.03	5.04	
			1	30.00	(5.70+5.80) / 2	0.03	5.18	
			1	30.00	(5.80+6.10) / 2	0.03	5.36	
			1	30.00	(6.10+6.00) / 2	0.03	5.45	
			1	3.80	(6.00+5.90) / 2	0.03	0.68	
	2nd Main Road		1	30.00	(6.60+6.40) / 2	0.03	5.85	
			1	8.50	(6.40+6.50) / 2	0.03	1.64	
	Pulikeshinagara:-1st Cross		1	28.50	(4.40+4.10) / 2	0.03	3.63	
			1	27.00	(4.20+4.00) / 2	0.03	3.32	
			1	22.90	(4.50+4.30) / 2	0.03	3.02	
					Total qty		71.66	

Contractor,s Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Measurements Taken On:-

S.NO	Description of item's	Unit	No	Measurements			Qty	Remarks
				L	B	D		
Item No-17	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.							
		Cum	Qty vide item No 4+9				648.24	

Contractor's Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Improvements and asphalting to balance roads at Thirumalanagara and Muneshwara Layout in Ward NO-03.

Agency:-Sri.H.S.Palakshamurthy No;1,2nd Main,BDA Layout,Pattegara Palya,prashanthanagar, Bangalore

MEASUREMENT SHEET Bill N0:-Final

Measurements Taken On:-23-8-18

S.NO	Description of item's	Unit	No	Measurements L	Measurements B	Measurements D	Qty	Remarks
Item No-18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.							
	Thirumalanagara 3rd cross	sqm	1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	30.00	0.10		6.00	
			1x2	3.80	0.10		0.76	
	2nd Main Road		1x2	30.00	0.10		6.00	
			1x2	8.50	0.10		1.70	
	Pulikeshinagara:-1st Cross		1x2	28.50	0.10		5.70	
			1x2	27.00	0.10		5.40	
			1x2	22.90	0.10		4.58	
							84.14	
	(-)Deduct Road		1x1	9.00	0.10		0.90	
							83.24	
						Quantity Limited to	**80.60**	

Contractor,s Representative

Assistant Engineer
Ward No-03

Assistant Executive Engineer
Yelahanka Satellite Sub Division